



Vision Statement



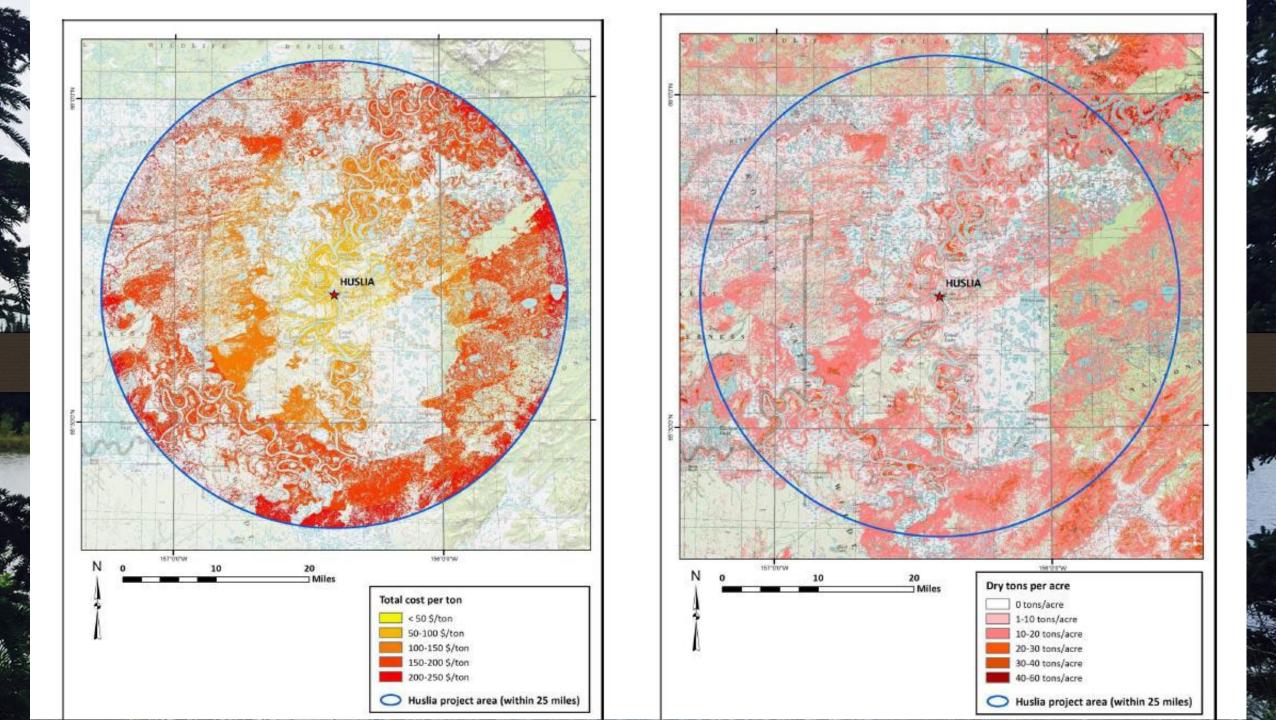
"The main goal of our community is to ensure the survival of our community and the preservation of our traditional way of life. We envision our community as a desirable place to live where future members will want to come back after schooling to work and raise families. To reach this goal we need to create a self-sustaining economy and address social, cultural and infrastructure issues in our community." – Huslia Community Plan 2017



- The planned Garn cordwood boiler technology is well proven in Alaska. Currently 14 community- scale cordwood and woodchip-fired energy projects are in operation around the state
- The project is in line with HTC's goal of supplying 25% of our energy from renewables.











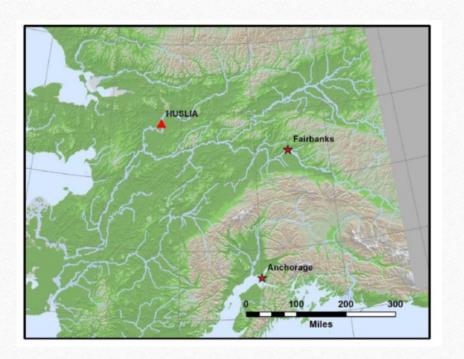


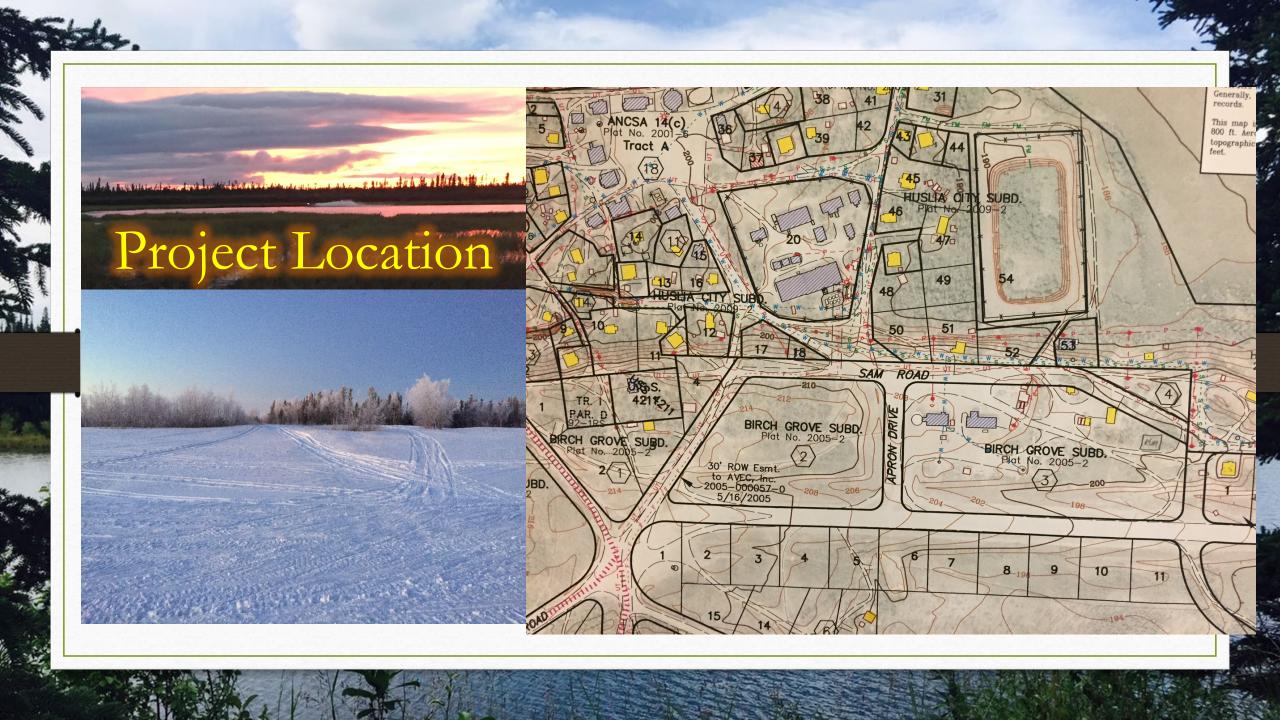
Project Overview

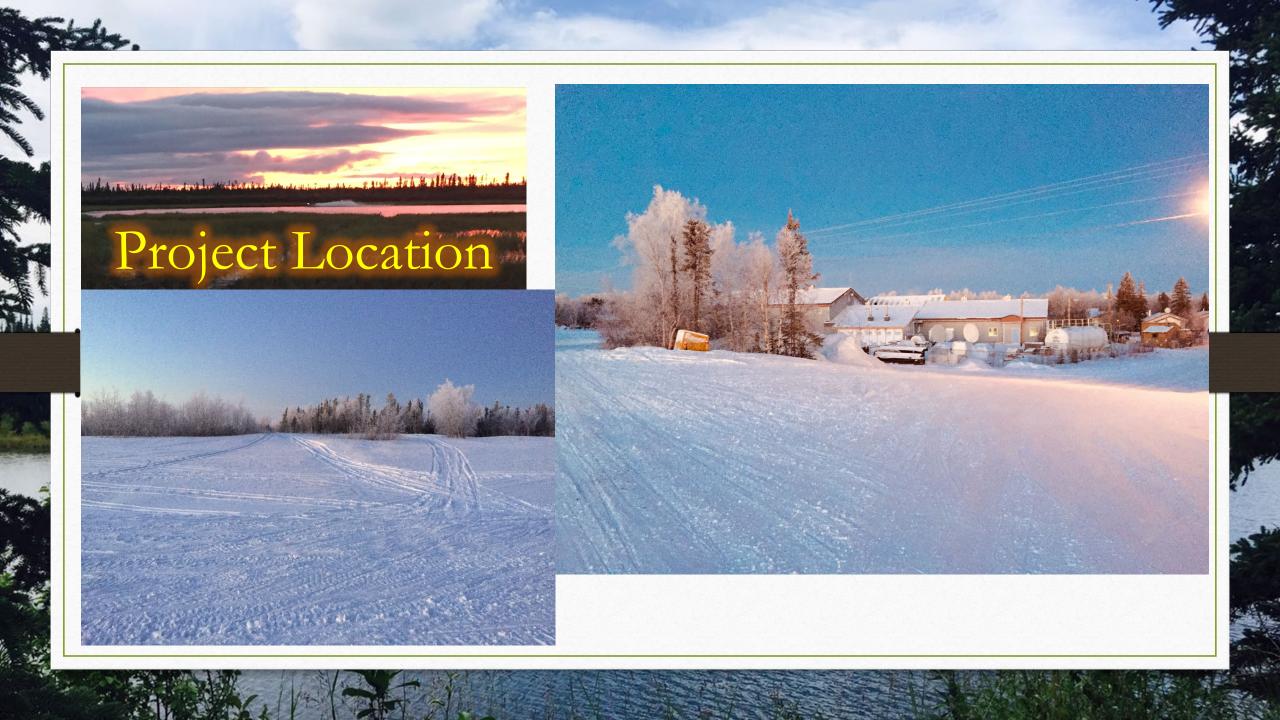
- Community scale biomass project to heat 60% of the sq footage of community buildings in the community of Huslia, AK School, Washeteria & Clinic
- Creates 5 12 part-time jobs
- Predicted to save the community \$57,000 annually in oil costs
- The Huslia Tribal Council will own the facility and manage the long term operations and maintenance of the project
- Project has installed 3 "Garn 2000" cordwood boilers in a 30x24 steel building

The Huslia Tribal Council Biomass Project will increase tribal energy security, decrease imported diesel and provide much needed employment for tribal members in Huslia, Alaska































Major Participants

- Huslia Tribal Council (HTC)
- City of Huslia
- Yukon Koyukuk School District (YKSD)
- Alaska Native Tribal Health Consortia (ANTHC)
- Tanana Chiefs Conference (TCC)

Management Approach and Team Roles

- The Huslia Tribal Council (HTC) applied for and received the DOE Award and the tribe manages 100% of the book keeping and invoicing for the project
- Tanana Chiefs Conference (TCC) acted as the Technical Point of Contact and oversaw conceptual design, contractor selection and construction
- Alaska Native Tribal Health Consortium (ANTHC) led the design of the project
- Yukon Koyukuk School District YKSD took on the biomass integration from the wall of their mechanical room into their boiler system
- During the operation, HTC will purchase fuelwood from local contractors and sell heat to the Yukon-Koyukuk School District (YKSD) and tribal buildings

Key Milestones & Deliverables

- Year 1:
 - Oct 1st 2017 Huslia Tribal Council began project
 - Jan 30th 2018 Design at 100%
 - April 30th 2018 long lead items all at Nenana Barge Landing
 - May 15th 2018 Building Construction Contractor Selected
 - July 30th 2018 Building foundation, walls, piping complete
- Year 2
 - February 28th 2019 mechanical work scheduled to be completed
 - Test firing school, clinic, water plant
 - Data Collection on project to take place in the remainder of the year

Project Goals

Cost Reduction

• Displace approximately \$57k of the fuel used to heat the facilities with local, sustainably harvested woody biomass. Fuel cost savings over the 25-year life of the project are estimated at approximately \$1.5 million.

Carbon Reduction

 Reduce greenhouse gas over the life of the project.

Community Resiliency

• Enhances self- sufficiency and technical capabilities of Huslia residents by reducing money export from the community for fuel oil and providing training for system operators and fuel harvesters.

• Economic Development

• Create approximately 5-12 part-time jobs for wood harvesters, and 2 part-time jobs for boilers operators

Project Benefits & Outcomes

- Installation of 3-Garn 2000 biomass boilers to heat 3 main buildings in the community of Huslia
- Create 5-12 part time and full time jobs harvesting and operating the biomass system
- Long-term reduction in oil costs for these 3 facilities estimated at \$57,000/year and over \$40,000/year of local economic development pumped into the local community
- Near completion of the Huslia Tribal Council's Renewable Portfolio Standard (RPS) to achieve 25% diesel displacement in its community facilities by the year 2025
- Leverage 50% of project costs in the form of in-kind and cash contributions
 - Federal Funds: \$361,143 Cost-share: \$361,143 Total: \$722,286

